

IN THE CLAIMS:

1. (canceled)

2. (canceled)

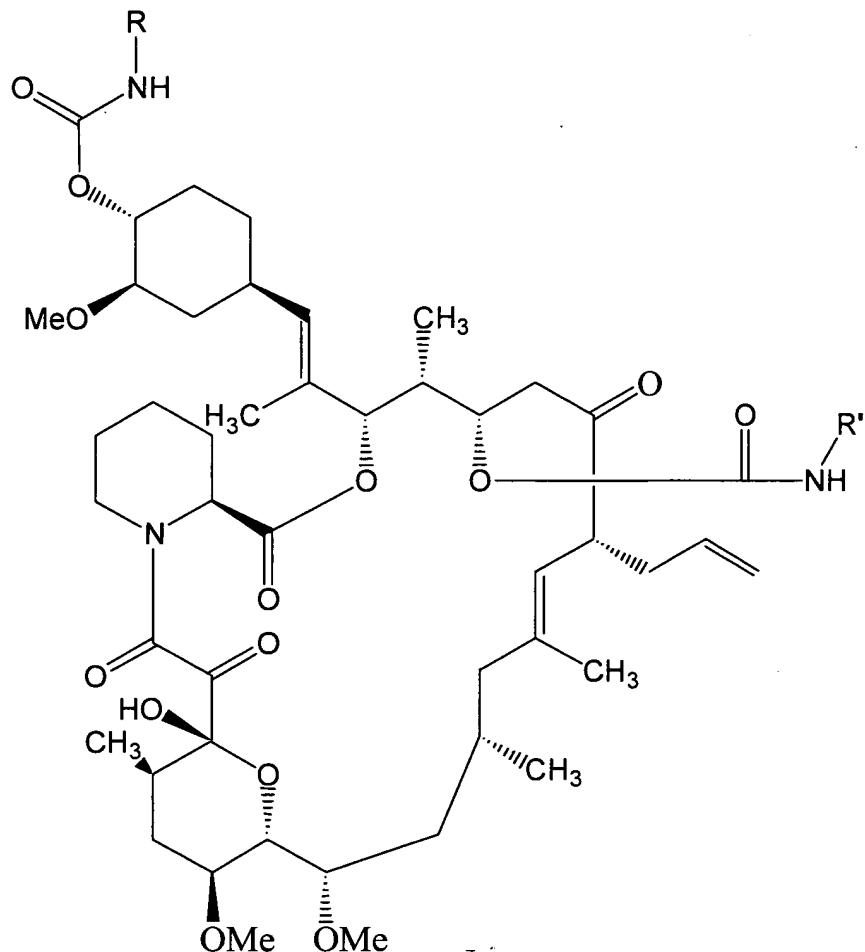
3. (canceled)

4. (canceled)

5. (canceled)

6. (canceled)

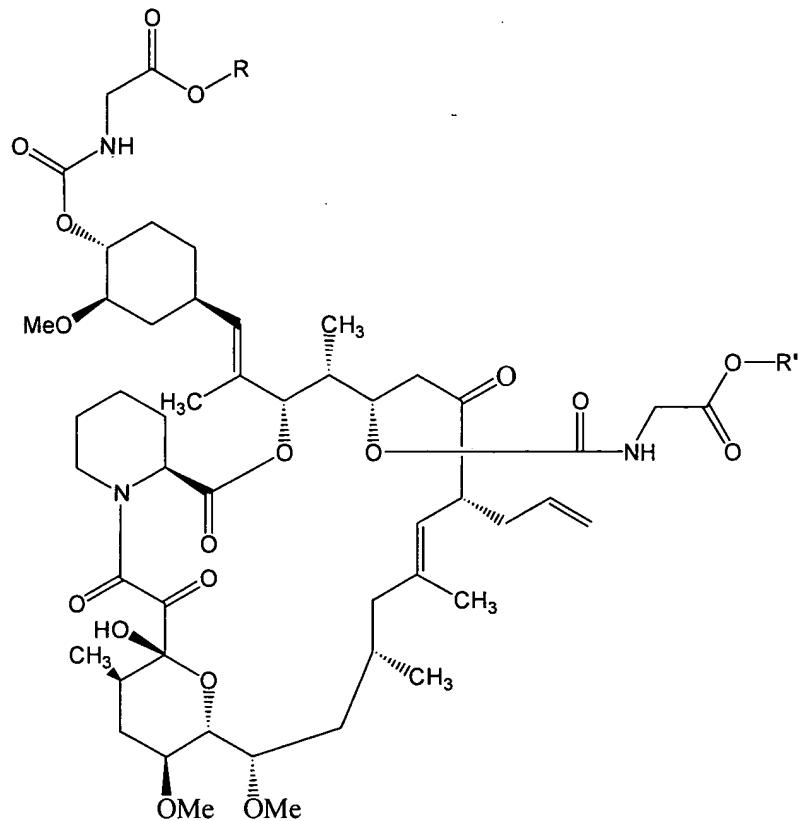
7. (twice amended) A method of determining the presence of a macrophilin-binding pharmaceutical in a sample comprising: adding to the sample a binding competitor of the formula:



wherein R is alkyl, aryl, allyl, each having less than 25 carbons or H, and R' is alkyl, aryl, allyl, each having less than 25 carbons or H; adding a receptor that binds to the pharmaceutical but not significantly to the binding competitor; detecting the receptor-pharmaceutical complex and correlating the detection with determining the amount of the pharmaceutical in the sample.

8. (Original) The method of claim 7 wherein the pharmaceutical is rapamycin (sirolimus), everolimus or tacrolimus (FK506).

9. (previously amended) A method of determining the presence of a macrophilin-binding pharmaceutical in a sample comprising: adding to the sample a binding competitor of the formula:



wherein R is alkyl, aryl, allyl, each having less than 25 carbons or H, and R' is alkyl, aryl, allyl, each having less than 25 carbons or H; adding a receptor that binds to the pharmaceutical but not significantly to the binding competitor; detecting the receptor-pharmaceutical complex and correlating the detection with determining the amount of the pharmaceutical in the sample.

10. (Original) The method of claim 9 wherein the pharmaceutical is rapamycin (sirolimus), everolimus or tacrolimus (FK506).

11. (Original) The method of claim 10 wherein R or R' is ethyl.

12. (canceled)

13. (canceled)

14. (previously presented) The method of claim 8 wherein R or R' is ethyl.

15. (new) The method of claim 7 wherein R or R' further comprise at least one functional group selected from the group consisting of esters, ethers, amides phosphates, sulfonates, sulfate, amidines, phosphonates, amine, hydroxyl or carboxylate functional groups.

16. (new) The method of claim 9 wherein R or R' further comprise at least one functional group selected from the group consisting of esters, ethers, amides phosphates, sulfonates, sulfate, amidines, phosphonates, amine, hydroxyl or carboxylate functional groups.